

Claims

1-10. (Canceled)

11. (Currently amended) A process for vulcanizing rubber or latex comprising adding a mixture M comprising a component a) comprising  
a1) from 20 to 96% by weight of sulfur,  
a2) from 4 to 80% by weight of a complexer and where appropriate other additives b) to the rubber or latex and then conducting the vulcanization, wherein the average primary particle size of component a) is in the range from 0.05 to 20 $\mu$ m, wherein the mixture M is free-flowing with an average particle size of from 50  $\mu$ m to 4 mm.

12. (Previously presented) A process as claimed in claim 11, wherein the complexer a2) comprises a polymeric complexer compound.

13. (Previously presented) A process as claimed in claim 11, wherein the polymeric complexer a2) is a ligninsulfonate, a  $\beta$ -naphthalenesulfonic acid-formaldehyde condensate, or a mixture of ligninsulfonate and  $\beta$ -naphthalenesulfonic acid-formaldehyde condensate.

14. (Previously presented) A process as claimed in claim 11, wherein the polymeric complexer a2) is an alkali metal ligninsulfonate and/or an alkaline earth metal ligninsulfonate.

15. (Canceled herein).

16. (Previously presented) A process as claimed in claim 11, wherein the mixture M is a liquid dispersion.

17. (Currently amended) A vulcanizable ~~compositon~~ composition comprising rubber or latex and a vulcanizing amount of a mixture M which comprises component a) comprising

a1) from 20 to 96% by weight of sulfur

a2) from 4 to 80% by weight of a complexer, based on the total weight of component a), and wherein the average primary particle size of component a) is the range from 0.05 to 20 $\mu$ m, wherein the mixture M is free-flowing with an average particle size of from 50  $\mu$ m to 4 mm.

18. (Currently amended) A ~~sulfur-containing composition~~ mixture M suitable for vulcanizing rubber or latex comprising a component a) which comprises 20 to 96% by weight of sulfur and from 4 to 80% by weight of a complexer, ~~the composition~~ said component a) having an average primary particle size in the range from 0.05 to 20 $\mu$ m, wherein the mixture M is free-flowing with an average particle size of from 50  $\mu$ m to 4 mm.

19. (Previously presented) A sulfur-containing composition as claimed in claim 18, where the complexer comprises a polymeric complexer compound.

20. (Currently amended) A sulfur-containing composition as claimed in claim 19, where the polymeric complexer is a ligninsulfonate, a  ~~$\beta$ -naphthalenesulfonic~~  $\beta$ -naphthalenesulfonic acid-formaldehyde condensate, or a mixture of ligninsulfonate and  ~~$\beta$ -naphthalenesulfonic~~  $\beta$ -naphthalenesulfonic acid-formaldehyde condensate.